

and provide a signal (e.g., an input signal) corresponding to the detected input. The signal may be provided, for example, to the processor 1002.

[0153] As discussed herein, in some cases, the input/output device 1008 include a touch sensor (e.g., a capacitive touch sensor) integrated with the display 1012 to provide a touch-sensitive display. Similarly, in some cases, the input/output device(s) 1008 include a force sensor (e.g., a capacitive force sensor) integrated with the display 1012 to provide a force-sensitive display.

[0154] The input/output device(s) 1008 may further include any suitable components for providing outputs. Examples of such input/output device(s) 1008 include audio output devices (e.g., speakers), visual output devices (e.g., lights or displays), tactile output devices (e.g., haptic output devices), communication devices (e.g., wired or wireless communication devices), some combination thereof, and so on. Each input/output device 1008 may be configured to receive one or more signals (e.g., an output signal provided by the processor 1002) and provide an output corresponding to the signal.

[0155] In some cases, input/output devices 1008 may be integrated as a single device or may be separate devices. For example, an input/output device or port can transmit electronic signals via a communications network, such as a wireless and/or wired network connection. Examples of wireless and wired network connections include, but are not limited to, cellular, Wi-Fi, Bluetooth, IR, and Ethernet connections.

[0156] The processor 1002 may be operably coupled to the input/output devices 1008. The processor 1002 may be adapted to exchange signals with the input/output devices 1008. For example, the processor 1002 may receive an input signal from an input/output device 1008 that corresponds to an input detected by the input/output device 1008. The processor 1002 may interpret the received input signal to determine whether to provide and/or change one or more outputs in response to the input signal. The processor 1002 may then send an output signal to one or more of the input/output devices 1008, to provide and/or change outputs as appropriate.

[0157] The electronic device 1000 may also include one or more additional sensors 1010 positioned almost anywhere on the electronic device 1000. The additional sensor(s) 1010 may be configured to sense one or more type of parameters, such as, but not limited to, pressure, light, touch, heat, movement, relative motion, biometric data (e.g., biological parameters), and so on. For example, the additional sensor(s) 1010 may include a heat sensor, a position sensor, an additional light or optical sensor, an accelerometer, a pressure transducer, a gyroscope, a magnetometer, a health monitoring sensor, and so on. Additionally, the one or more additional sensors 1010 may utilize any suitable sensing technology, including, but not limited to, capacitive, ultrasonic, resistive, optical, ultrasound, piezoelectric, and thermal sensing technology. In some examples, the additional sensors 1010 may include one or more of the electrodes described herein (e.g., one or more electrodes on an exterior surface of a cover that forms part of an enclosure for the electronic device 1000 and/or an electrode on a crown body, button, or other housing member of the electronic device 1000).

[0158] In various embodiments, the display 1012 may provide a graphical output, for example associated with an

operating system, user interface, and/or applications of the electronic device 1000. In some embodiments, the display 1012 may include one or more sensors and is configured as a touch-sensitive (e.g., single-touch, multi-touch) and/or force-sensitive display to receive inputs from a user. For example, the display 1012 may be integrated with a touch sensor (e.g., a capacitive touch sensor) and/or a force sensor to provide a touch- and/or force-sensitive display. The display 1012 may be operably coupled to the processing unit 1002 of the electronic device 1000.

[0159] The display 1012 may be implemented with any suitable technology, including, but not limited to, liquid crystal display (LCD) technology, light emitting diode (LED) technology, organic light-emitting display (OLED) technology, organic electroluminescence (OEL) technology, or another type of display technology. In some cases, the display 1012 may be positioned beneath and viewable through a cover that forms at least a portion of an enclosure of the electronic device 1000. Many such displays also include touch screen functionality where a user may exert a touch and/or a force on a touch-sensitive display to interact with an electronic device via the display.

[0160] The battery 1014 may be implemented with any device capable of providing energy to the electronic device 1000. The battery 1014 may be one or more batteries or rechargeable batteries. Additionally or alternatively, the battery 1014 may be replaced or supplemented by a power connector or power cord that connects the electronic device 1000 to another power source, such as power transferred through a wall outlet.

[0161] As described above, one aspect of the present technology is the gathering and use of data available from various sources to provide, for example, facial recognition and/or eyesight diagnosis. The present disclosure contemplates that, in some instances, this gathered data may include personal information data that uniquely identifies, may be used to identify and/or authenticate, or can be used to contact or locate a specific person. Such personal information data can include facial information, vision prescription information, demographic data, location-based data, telephone numbers, email addresses, twitter IDs, home addresses, data or records relating to a user's health or level of fitness (e.g., vital signs measurements, medication information, exercise information), date of birth, or any other identifying or personal information.

[0162] The present disclosure recognizes that the use of such personal information data, in the present technology, can be used to the benefit of users. For example, the facial recognition data may be used to secure an electronic device and may be used to generate and present a vision-corrected graphical output. Further, other uses for personal information data that benefit the user are also contemplated by the present disclosure. For instance, eyesight prescription information may be used to provide insights into a user's vision health, or may be used to measure a user's vision over time to monitor changing eye conditions.

[0163] The present disclosure contemplates that the entities responsible for the collection, analysis, disclosure, transfer, storage, or other use of such personal information data will comply with well-established privacy policies and/or privacy practices. In particular, such entities should implement and consistently use privacy policies and practices that are generally recognized as meeting or exceeding industry or governmental requirements for maintaining personal infor-